

# **BookletChart<sup>TM</sup>**

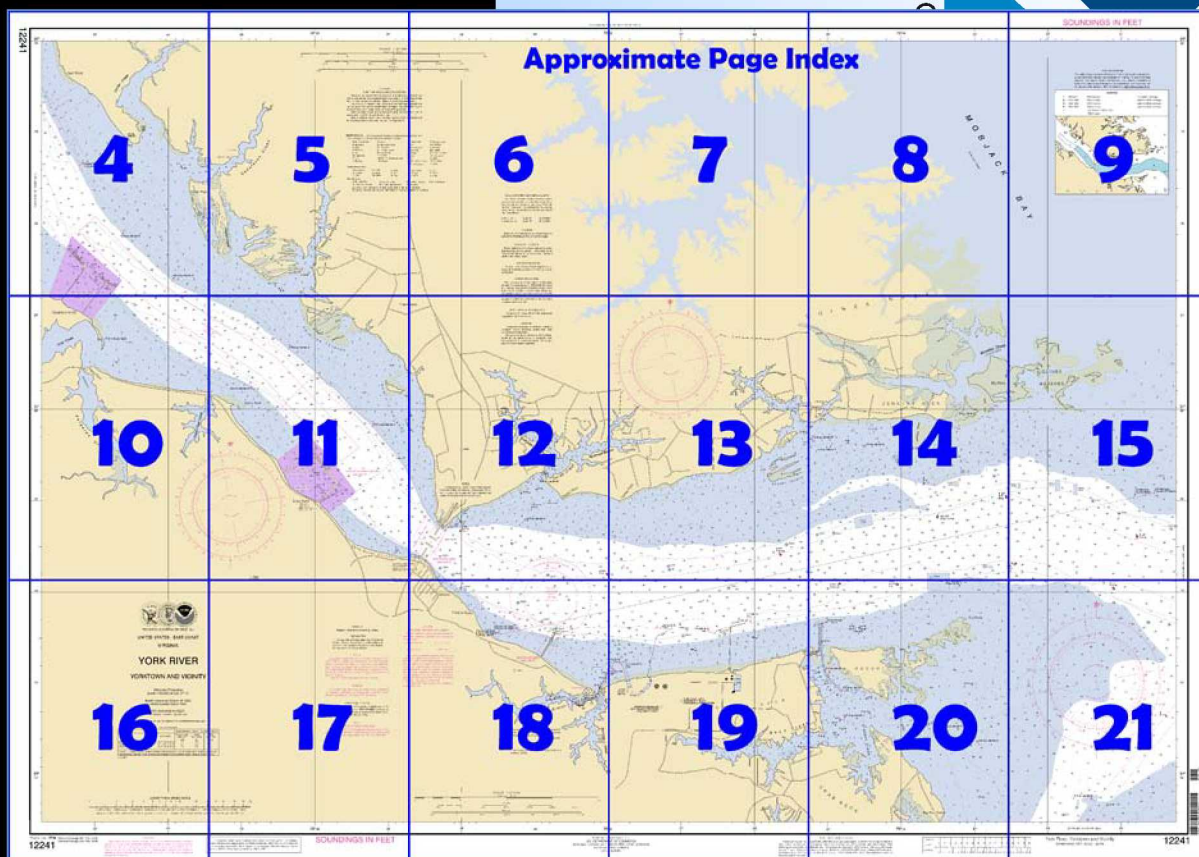
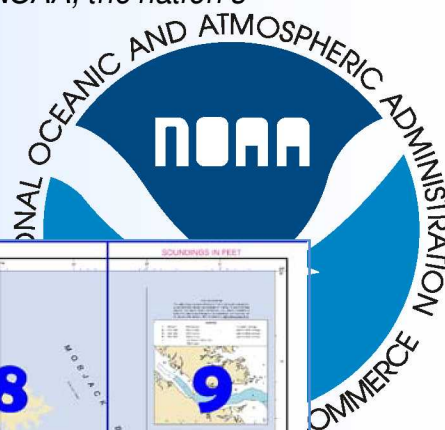
## **York River - Yorktown and Vicinity**

**(NOAA Chart 12241)**



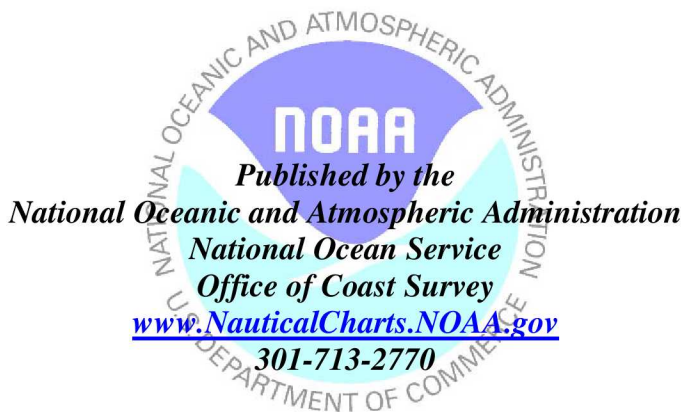
A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ☒ Complete, reduced scale nautical chart
- ☒ Print at home for free
- ☒ Convenient size
- ☒ Up to date with all Notices to Mariners
- ☒ United States Coast Pilot excerpts
- ☒ Compiled by NOAA, the nation's chartmaker.



**Home Edition (not for sale)**





### What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

### What is a BookletChart™?

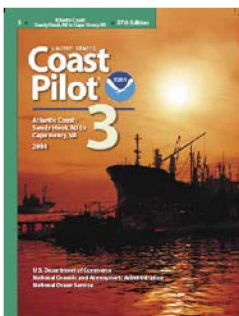
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

### Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



### [Coast Pilot 3, Chapter 11 excerpts]

(23) **York River.** Drafts of vessels using the river are mostly 18 feet or less.  
 (24) York River has a broad and fairly straight channel, is well marked and easily followed. In 1982, the controlling depth in the dredged sections of the river was 18 feet to West Point. Vessels can anchor in the wider parts of York River channel aside from the naval areas described later.

(25) The currents in York River follow the general direction of the channel except in the

narrowest parts where there is a tendency to set a vessel onto the shoals. The velocity varies throughout the river.

(27) **Caution.** Ships and craft in York River are to proceed at reduced speed and exercise extreme caution in order to reduce water motion and to prevent damage to the Virginia Fisheries Laboratory equipment and facilities located downstream from the Coleman Memorial Bridge. In no

instance should the **speed** of ships underway upriver from the Tue Marshes Light exceed 12 knots.

(30) **Supplies** are available at Yorktown, West Point.

(31) **York Spit** extends outward along the northeast side of the York River approach channel for 7 miles from Guinea Marshes; the inner half of the spit has depths of 1 to 6 feet, and the outer half 10 to 20 feet.

(32) **York Spit Light** (37°12.6'N., 76°15.3' W.), 30 feet above the water, is shown from a pile with a red and white diamond-shaped daymark, in depths of 11 feet near the outer end of the spit.

(34) 1.5 miles northwest of York Spit Light, a buoyed lane extends northeastward through the fishtraps. The lane has depths of 15 feet or more and can be used by vessels approaching York River from northward.

(35) The swash channel through York Spit about 5 miles northwest of York Spit Light has a controlling depth of 7 feet; it is marked by a light and daybeacons. The channel shows up well on a bright day.

(37) **Tue Marshes Light** (37°14.1'N., 76°23.2'W.), 41 feet above the water, is shown from a pile with a green and white diamond-shaped daymark, in depths of 4 feet 0.3 mile north of Tue Point.

(38) **Perrin River** has depths of 6 feet or more in the approach and through a narrow marked channel to the wharf at **Perrin**. A marina on the east side has gasoline, diesel fuel, some supplies. Gasoline and diesel fuel can be obtained at several of the oysterhouse wharves, on the east side of the river entrance; depths of 4 to 7 feet are alongside the wharves.

(41) **Wormley Creek** and **West Branch** have a common entrance on the south side of York River; a light marks the entrance. A dredged channel leads through the entrance to the Coast Guard Reserve Training Center. In January 2001, the channel marked by a light, buoys, and daybeacons, has a reported centerline controlling depth of 3.4 feet to the Coast Guard basin. Local knowledge is advised. Gasoline, diesel fuel, berths, water, electricity, and marine supplies can be obtained at a marina on the east side of Wormley Creek.

(42) The Coast Guard T-pier on the south side of York River 5 miles above the mouth, has depths of 30 feet at the outer end.

(44) **Sarah Creek** has depths of 7 feet through the marked entrance channel and for about 0.8 mile up both its branches. A yacht haven, 0.3 mile above the entrance, has supplies, gasoline, diesel fuel, a pumpout station and numerous berths.

(45) A highway bridge with a clearance of 6 feet crosses Northwest Branch about 0.8 mile above its mouth.

(47) The public wharf at the Yorktown end of the bridge has depths of 6 feet at its face, but depths of 20 feet or more are only 5 feet off of it.

(48) Permission to use the wharf facilities may be obtained from the Board of Trustees, P.O. Box 512, Yorktown, Va. 23690.

(50) The **Yorktown Naval Weapons Station** piers on the southwest side of York River have depths of about 39 feet at their outer ends. A **prohibited area** and a **restricted area** for mine service testing are off the piers. A **naval anchorage** begins off the Naval Weapons Station piers and extends upriver 4 miles.

(51) The **Naval Supply Center** piers are within a **naval restricted area**.

# Table of Selected Chart Notes

Corrected through NM Feb. 23/08  
Corrected through LNM Feb. 19/08

**HEIGHTS**  
Heights in feet above Mean High Water.

**Mercator Projection**  
Scale 1:20,000 at Lat. 37°16'  
  
**North American Datum of 1983**  
(World Geodetic System 1984)  
  
**SOUNDINGS IN FEET**  
AT MEAN LOWER LOW WATER

**AIDS TO NAVIGATION**  
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

**NOTE D**  
Numerous private buoys are not charted in Wormley Creek.

**CAUTION**  
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

**NOAA WEATHER RADIO BROADCASTS**  
The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Norfolk, VA	KHB-37	162.55 MHz
Heathsville, VA	WXM-57	162.40 MHz

**CAUTION**  
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.  
During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

**NOTE B**  
Experimental equipment exists at the Virginia Institute of Marine Science, Gloucester Point, which is sensitive to swell damage. Mariners are cautioned to adjust speed accordingly.


**AUTHORITIES**  
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

**RADAR REFLECTORS**  
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

**SUPPLEMENTAL INFORMATION**  
Consult U.S. Coast Pilot 3 for important supplemental information.

**HORIZONTAL DATUM**  
The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.520" northward and 1.180" eastward to agree with this chart.

**CAUTION**  
**SUBMARINE PIPELINES AND CABLES**  
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:



Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.  
Covered wells may be marked by lighted or unlighted buoys.

**POLLUTION REPORTS**  
Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

**WARNING**  
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

**NOTE A**  
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 3. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 5th Coast Guard District in Portsmouth, Virginia or at the Office of the District Engineer, Corps of Engineers in Norfolk, Virginia.  
Refer to charted regulation section numbers.

**NOTE E**  
**EMERGENCY RESTRICTED AREA**  
For the latest information regarding the regulations of any emergency restricted area, contact the Army Corps of Engineers, Norfolk District, Regulatory Branch at (757) 201-7653/7652.

Additional information can be obtained at [nauticalcharts.noaa.gov](http://nauticalcharts.noaa.gov).

**SOURCE DIAGRAM**  
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

**CAUTION**  
**FISH TRAP AREAS AND STRUCTURES**  
Mariners are warned that numerous uncharted duck blinds and fishing structures, some submerged, may exist in the fish trap areas. Such structures are not charted unless known to be permanent.  
Regulations to assure clear passage to and through dredged and natural channels, and to established landings, are prescribed by the Corps of Engineers in the Code of Federal Regulations.  
Definite limits of fish trap areas have been established in some areas, and those limits are shown thus: \_\_\_\_\_  
Where definite limits have not been prescribed, the location of fishing structures is restricted only by the regulations.

**CAUTION**  
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at [nauticalcharts.noaa.gov](http://nauticalcharts.noaa.gov).

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

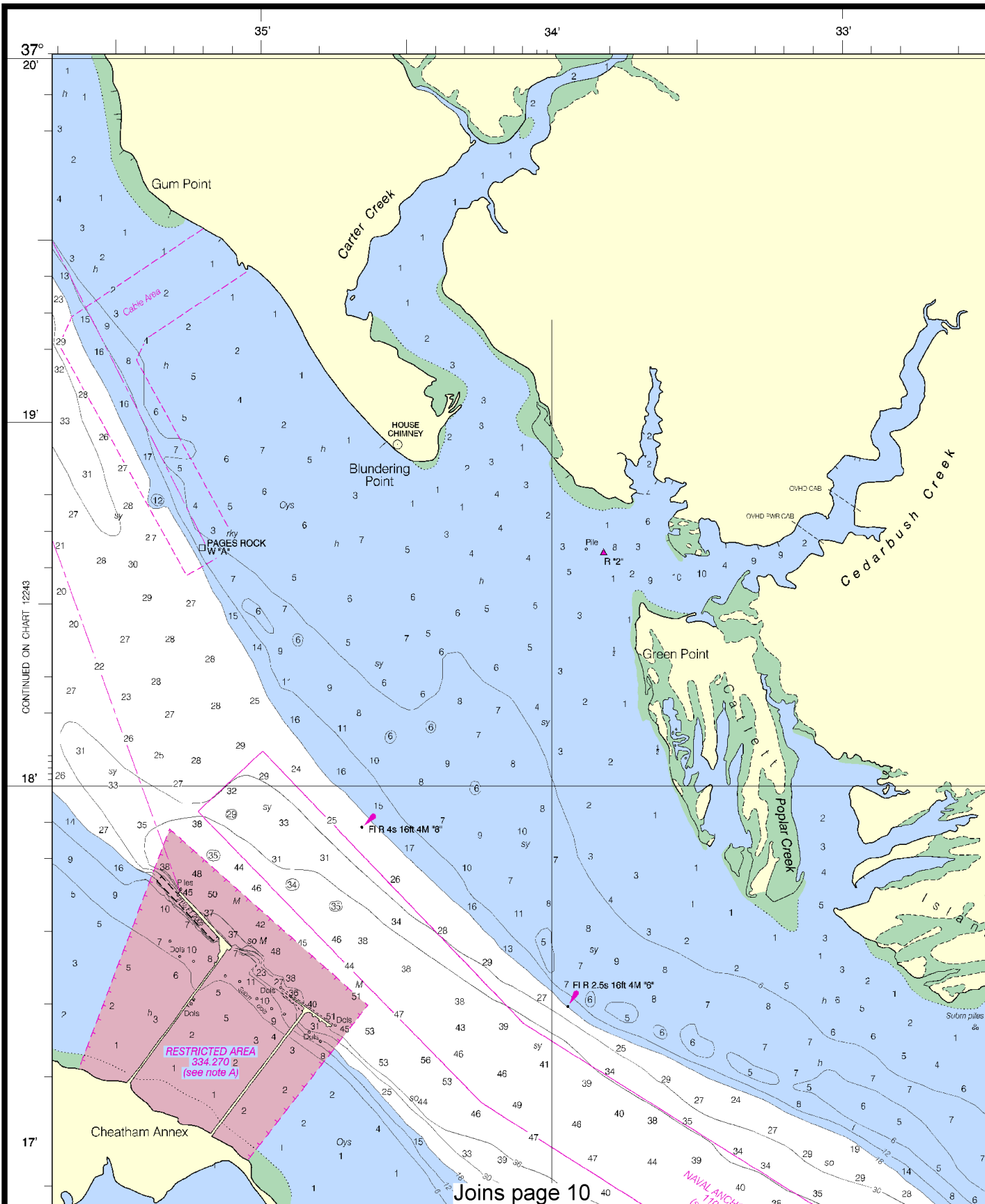
TIDAL INFORMATION				
PLACE		Height referred to datum of soundings (MLLW)		
NAME	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Tue Marshes Light	(37°14'N/76°23'W)	2.5	2.3	0.1
Yorktown	(37°14'N/76°30'W)	2.7	2.5	0.1
Penniman Spit	(37°17'N/76°35'W)	2.8	2.6	0.1

Dashes (---) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from <http://tidesandcurrents.noaa.gov>.  
(Jun 2007)

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)			
Aids to Navigation (lights are white unless otherwise indicated):			
AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	Iso isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow
Bottom characteristics:			
Bds boulders	Co coral	gy gray	Oys oysters
bk broken	G gravel	h hard	Rk rock
Cy clay	Grs grass	M mud	S sand
Miscellaneous:			
AUTH authorized	Obstn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	
(1) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.			
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.			

**PRINT-ON-DEMAND CHARTS**  
NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, <http://NauticalCharts.gov>, [help@NauticalCharts.gov](mailto:help@NauticalCharts.gov), or OceanGrafix at 1-877-56CHART, <http://OceanGrafix.com>, or [help@OceanGrafix.com](mailto:help@OceanGrafix.com).

12241



CONTINUED ON CHART 12243

Joins page 10

4



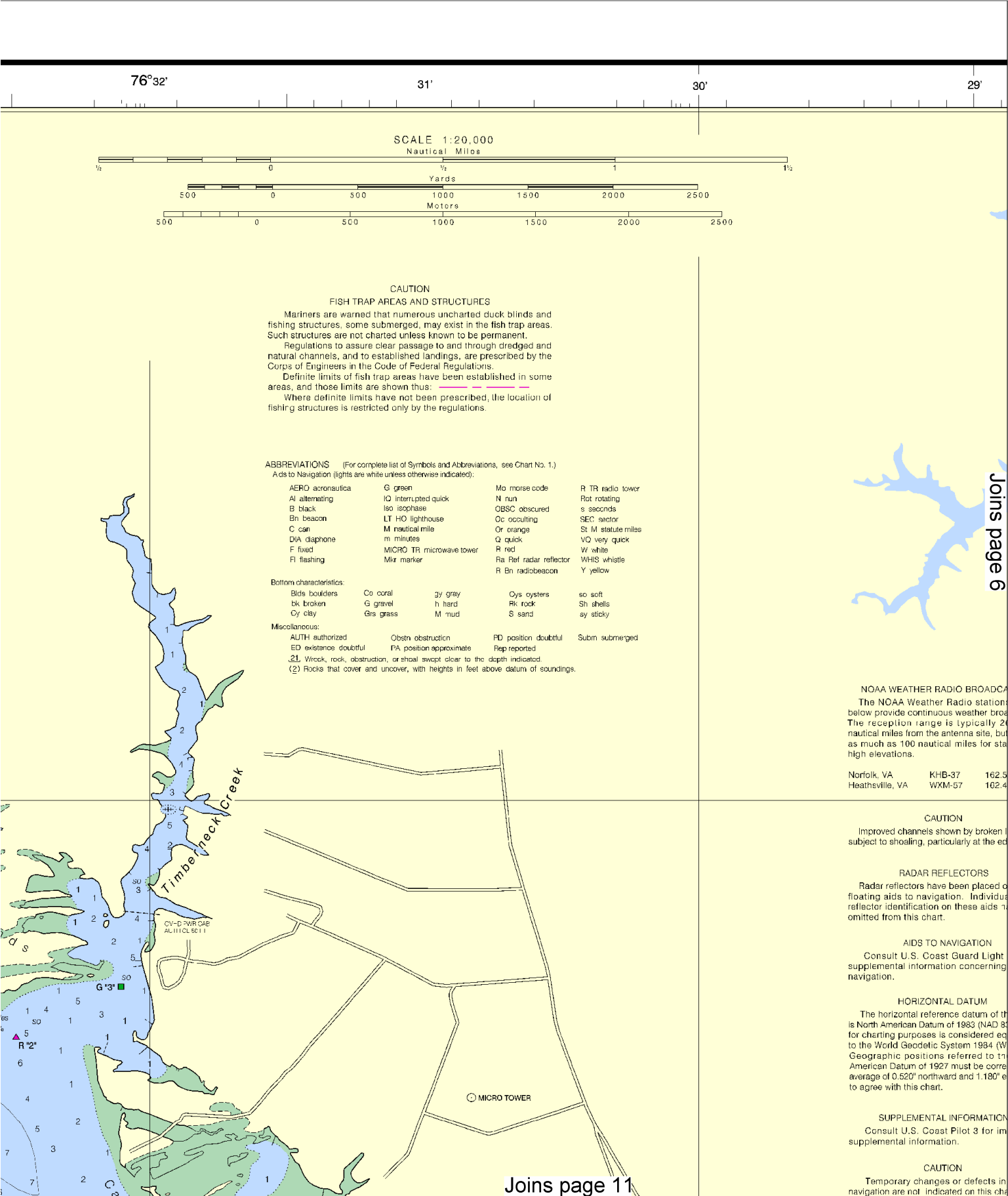
Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.







This BookletChart was reduced to 75% of the original chart scale.  
The new scale is 1:26667. Barscales have also been reduced and  
are accurate when used to measure distances in this BookletChart.

31'

30'

29'

76°2

SCALE 1:20,000  
Nautical Miles

Yards

Meters

### CAUTION

#### FISH TRAP AREAS AND STRUCTURES

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Definite limits of fish trap areas have been established in some areas, and those limits are shown thus: ---

Where definite limits have not been prescribed, the location of fishing structures is restricted only by the regulations.

### ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated).

AERO aeronautica	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	iso isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

#### Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	Gr grass	M mud	S sand	sy sticky

#### miscellaneous:

AUTH authorized	Obstrn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	
(1) Wreck, rock, obstruction, or shoal swept clear to the depth indicated.			
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.			

### NOAA WEATHER RADIO BROADCASTS

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Heathsville, VA	WXM-57	162.40 MHz

### CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

### RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

### AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

### HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.520" northward and 1.180" eastward to agree with this chart.

### SUPPLEMENTAL INFORMATION

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### CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See

Joins page 5

Joins page 12

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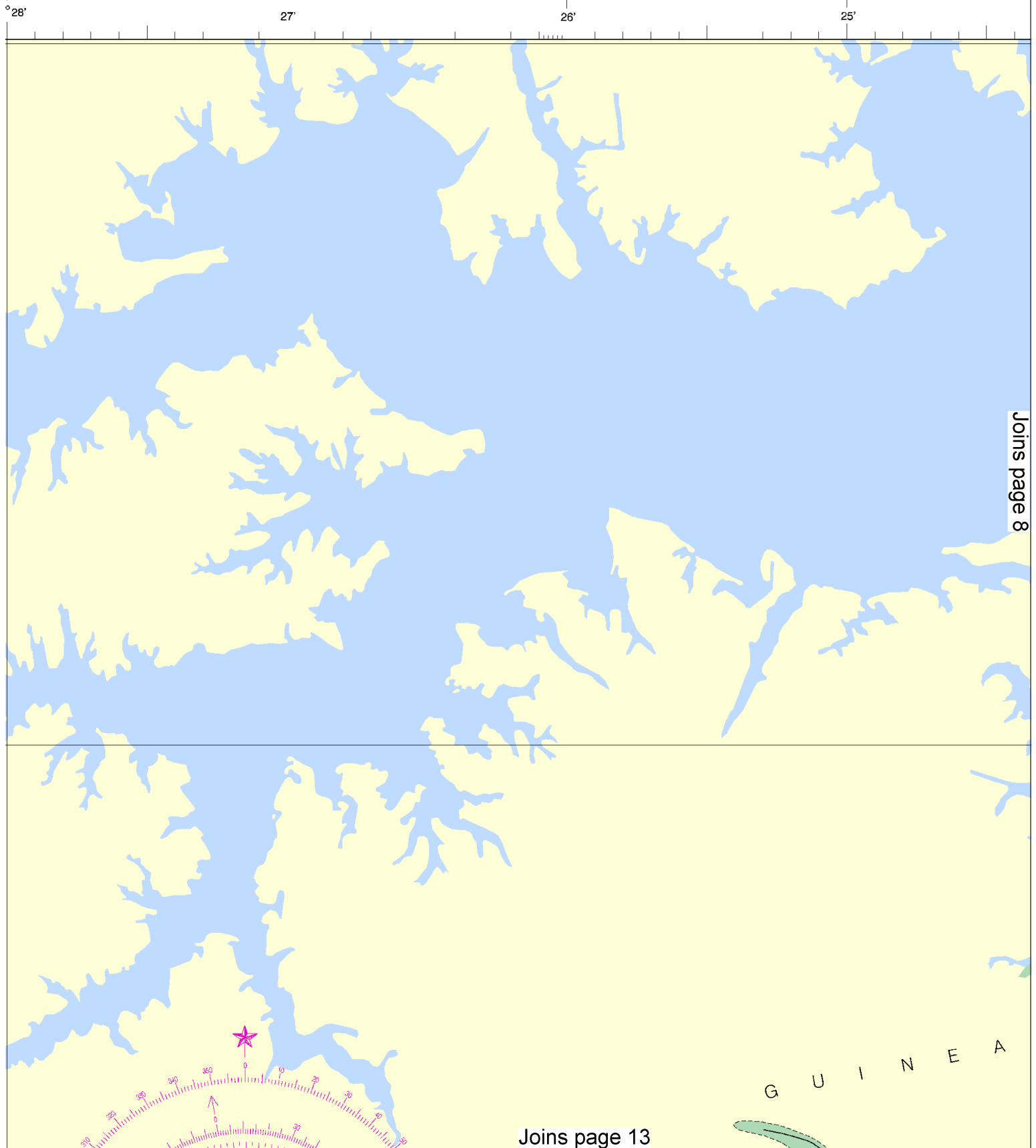
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SCALE 1:20,000  
Nautical Miles

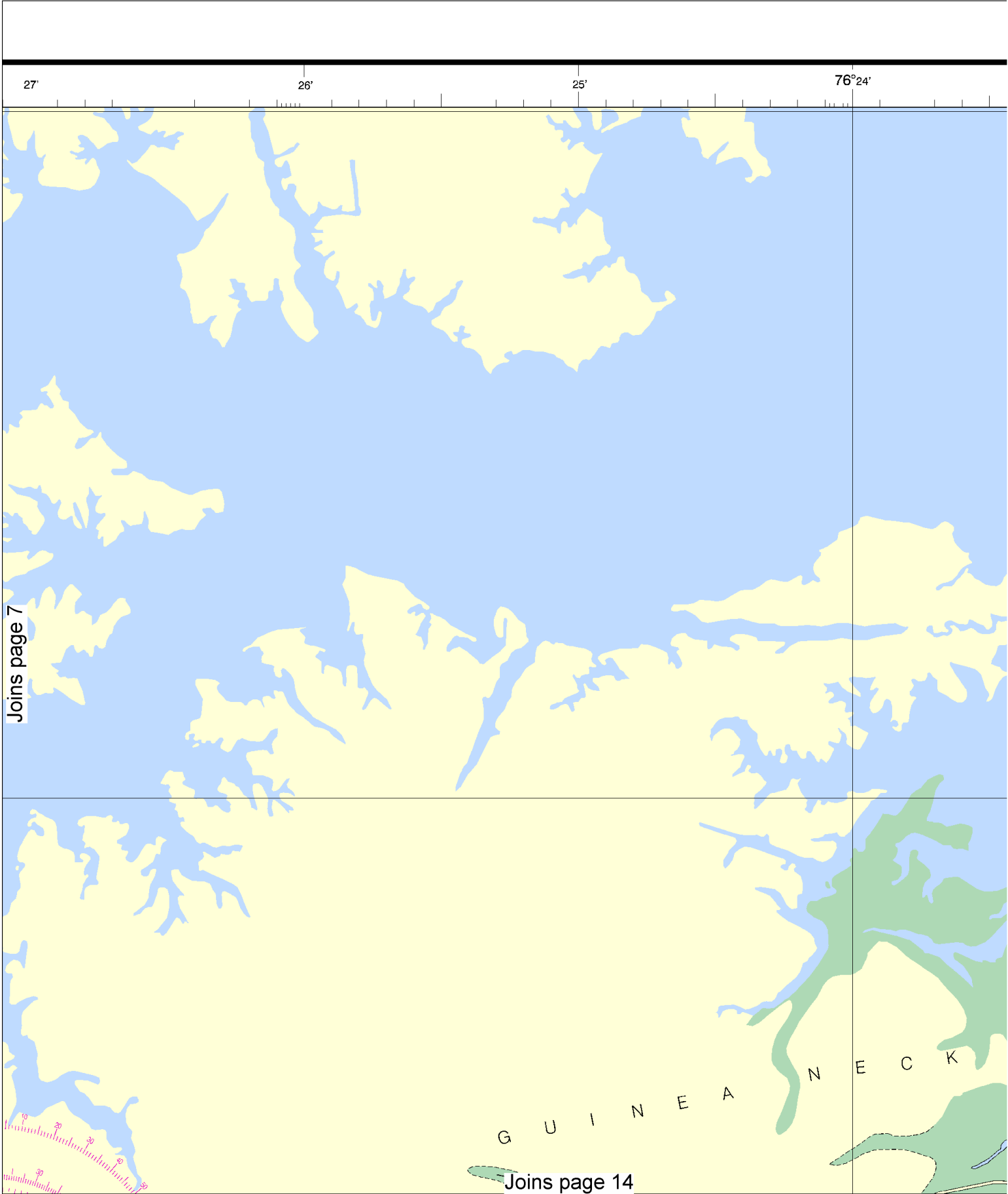
See Note on page 5.

Yards

1 1/2



This BookletChart has been updated with: Coast Guard Local Notice To Mariners: 0810 2/23/2010,  
NGA Weekly Notice to Mariners: 1010 3/6/2010,  
Canadian Coast Guard Notice to Mariners: n/a .

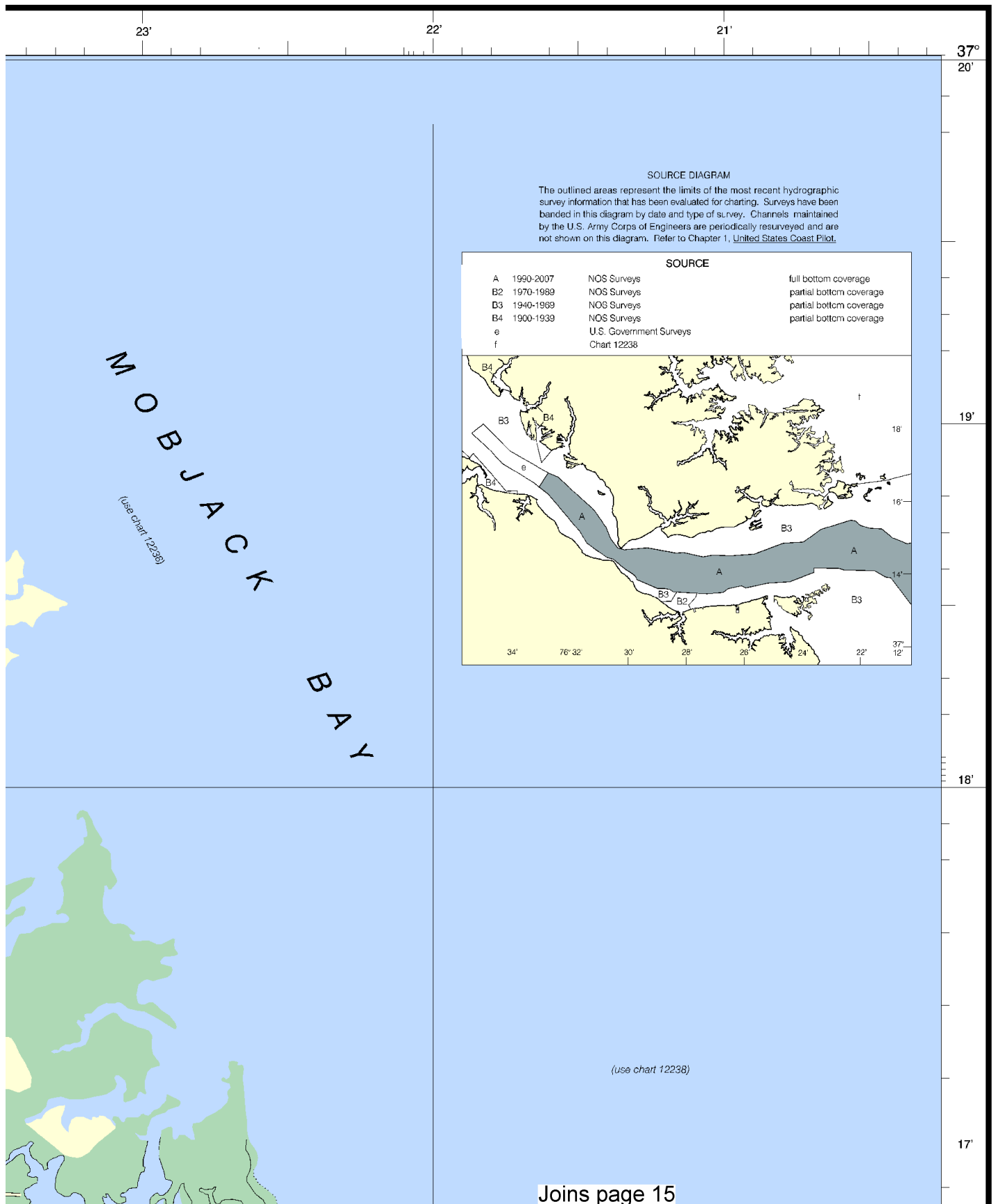


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# SOUNDINGS IN FEET

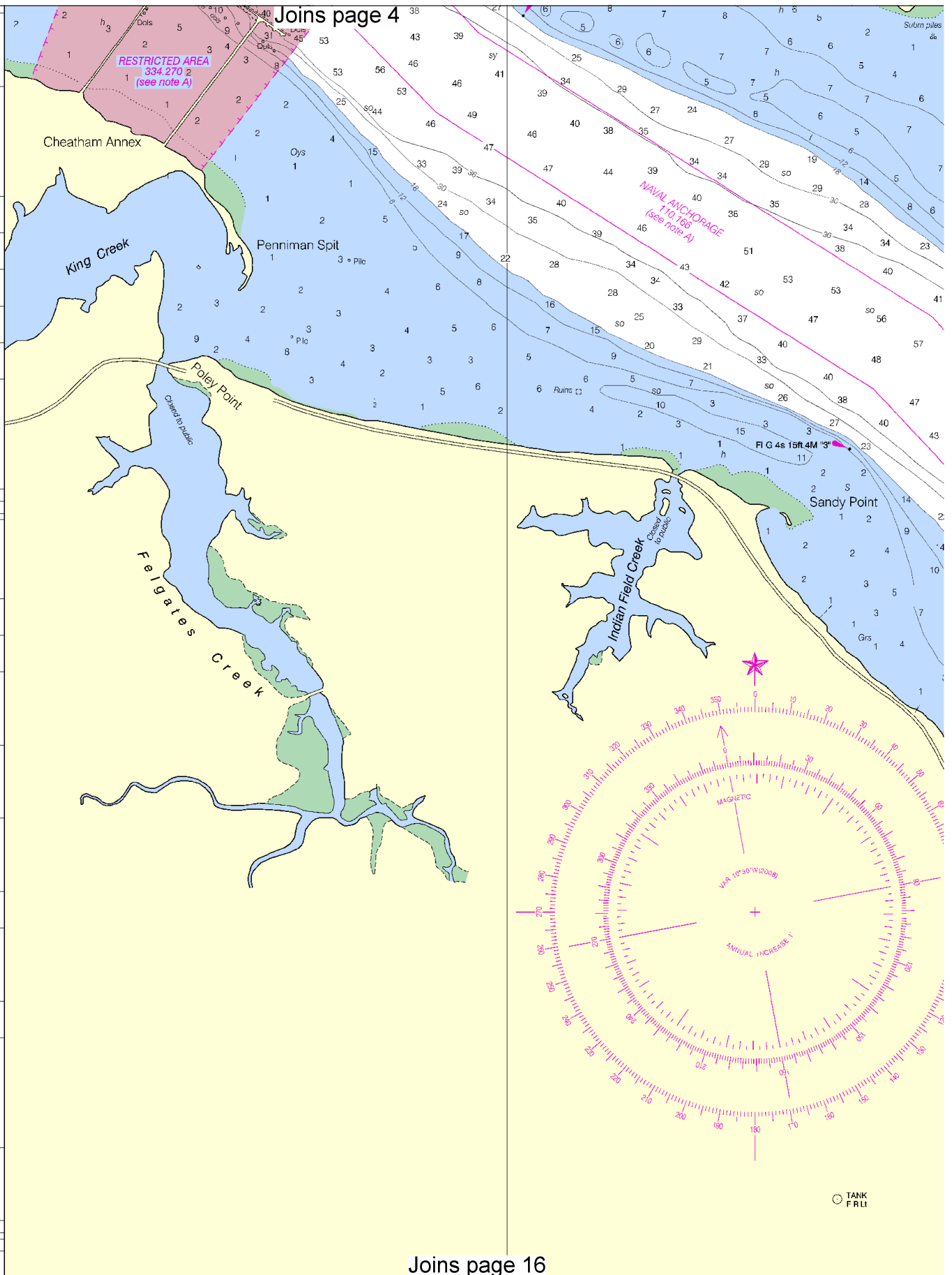


17'

37°  
16'

15'

14'



10



Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.



**HORIZONTAL DATUM**  
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SUPPLEMENTAL INFORMATION  
Consult U.S. Coast Pilot 3 for im  
supplemental information.

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During some winter months or when covered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

NOTE B

Experimental equipment exists at the Virginia Institute of Marine Science, Gloucester Point, which is sensitive to swell damage. Mariners are cautioned to adjust speed accordingly.

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MICRO TOWER

TANK

#### NOTE B

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RESTRICTED AREA  
(see note E)

RESTRICTED ANCHORAGE 334.260  
(see note A)

EXPLOSIVES  
HANDLING  
BERTH  
334.260

Yorktown

COLEMAN MEMORIAL BRIDGE  
TWO SWING SPANS  
HOR CL 420 FT  
VERT CL 60 FT  
CENTER SPAN

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Joins page 18

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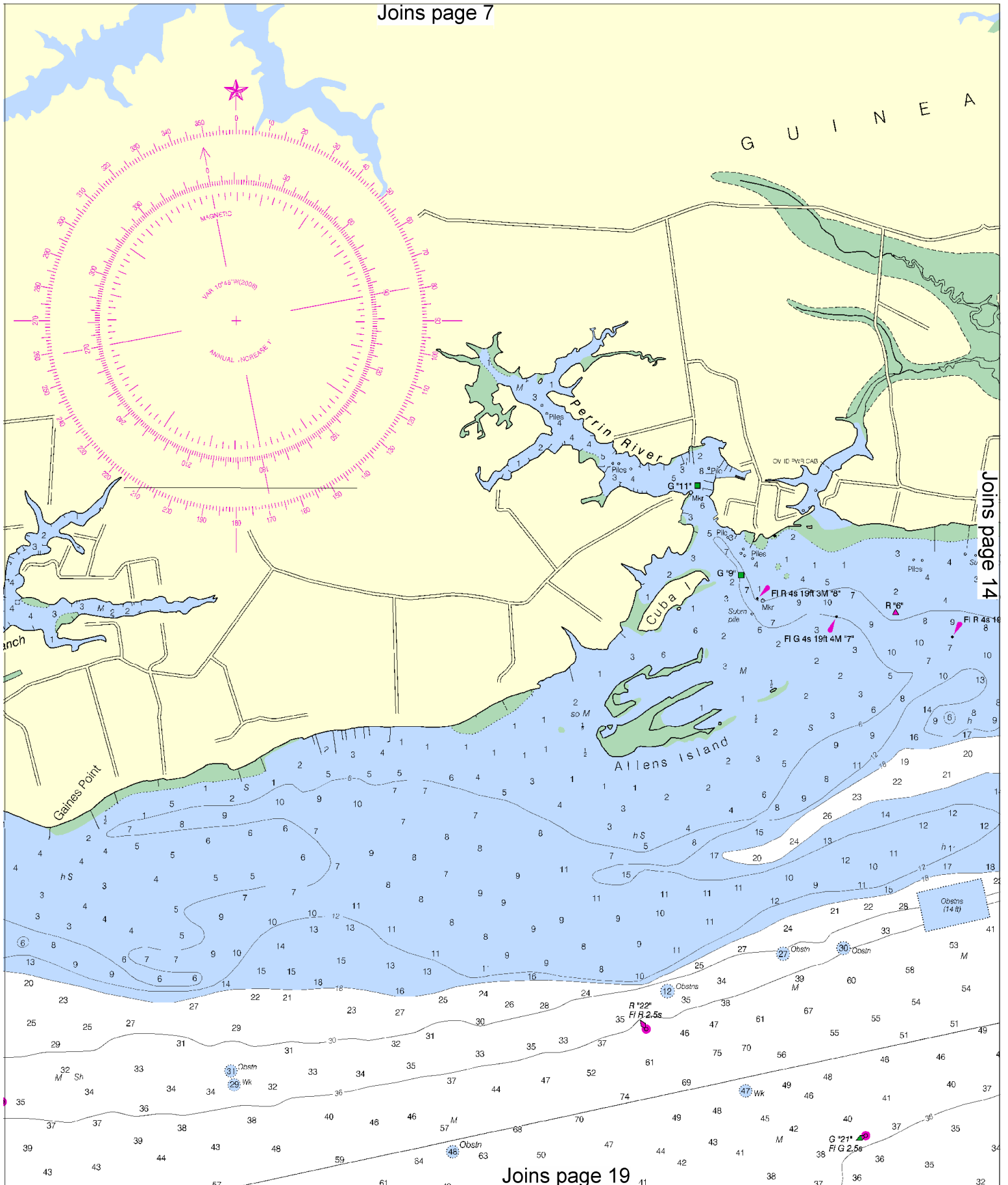
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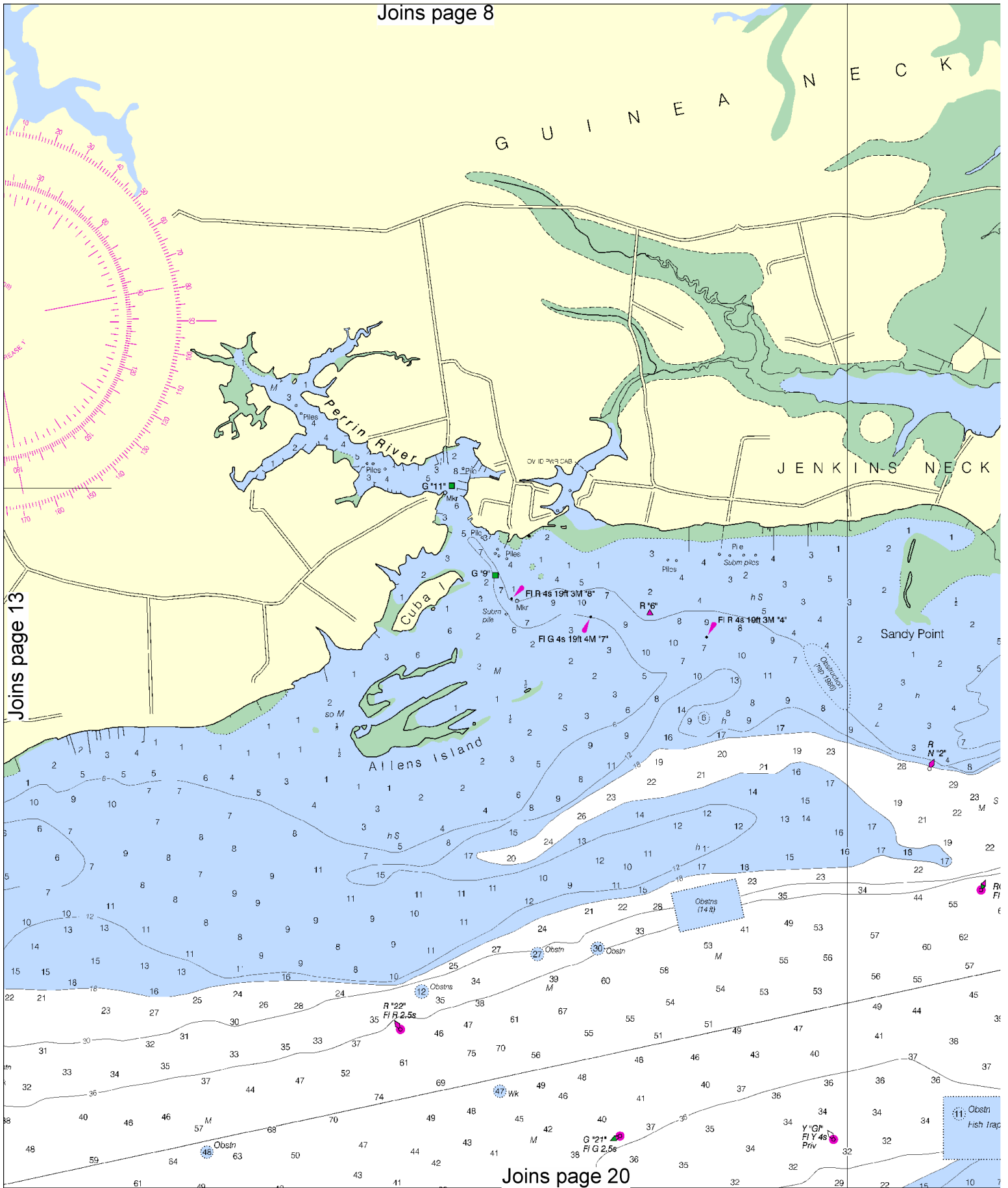
SCALE 1:20,000  
Nautical Miles

See Note on page 5.









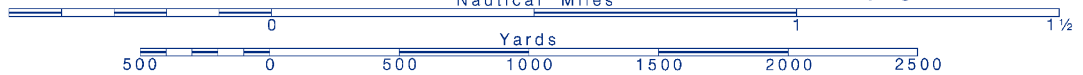
14



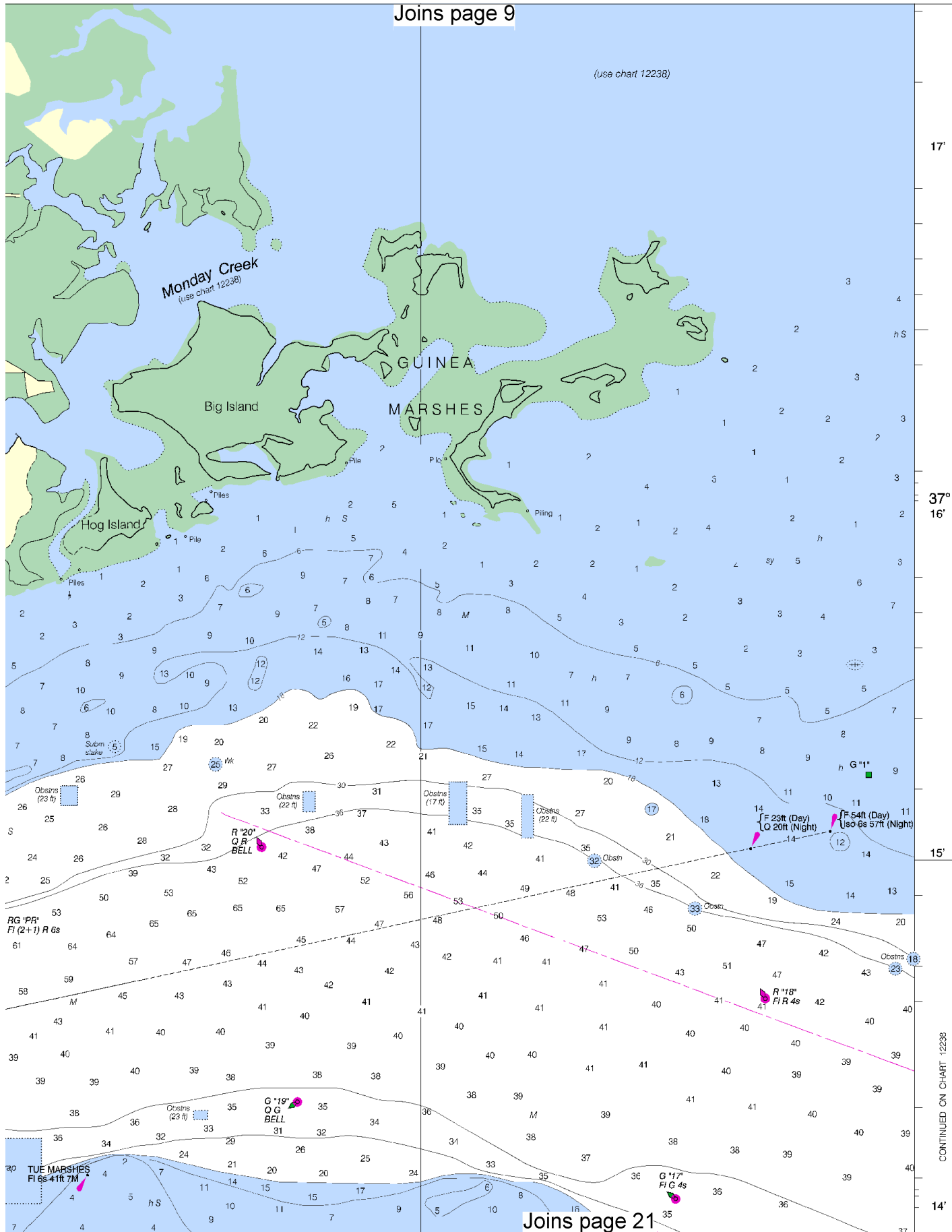
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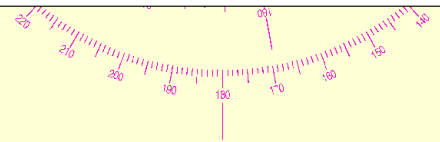
SCALE 1:20,000  
Nautical Miles

See Note on page 5.



(use chart 12238)





TANK  
FRII



THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES - EAST COAST

VIRGINIA

# YORK RIVER

## YORKTOWN AND VICINITY

Mercator Projection  
Scale 1:20,000 at Lat. 37°16'

North American Datum of 1983  
(World Geodetic System 1984)

SOUNDINGS IN FEET  
AT MEAN LOWER LOW WATER

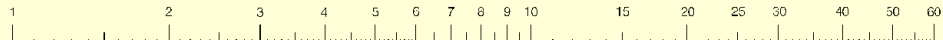
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### TIDAL INFORMATION

NAME	PLACE (LAT/LONG)	Height referred to datum of soundings (MLLW)		
		Mean Higher High Water	Mean High Water	Mean Low Water
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Yorktown	(37°14'N/76°30'W)	2.7	2.5	0.1
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(Jun 2007)

### LOGARITHMIC SPEED SCALE



To find SPLLD, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots

22nd Ed., Feb. / 08 ■ Corrected through NM Feb. 23/08  
Corrected through LNM Feb. 19/08

12241

### CAUTION

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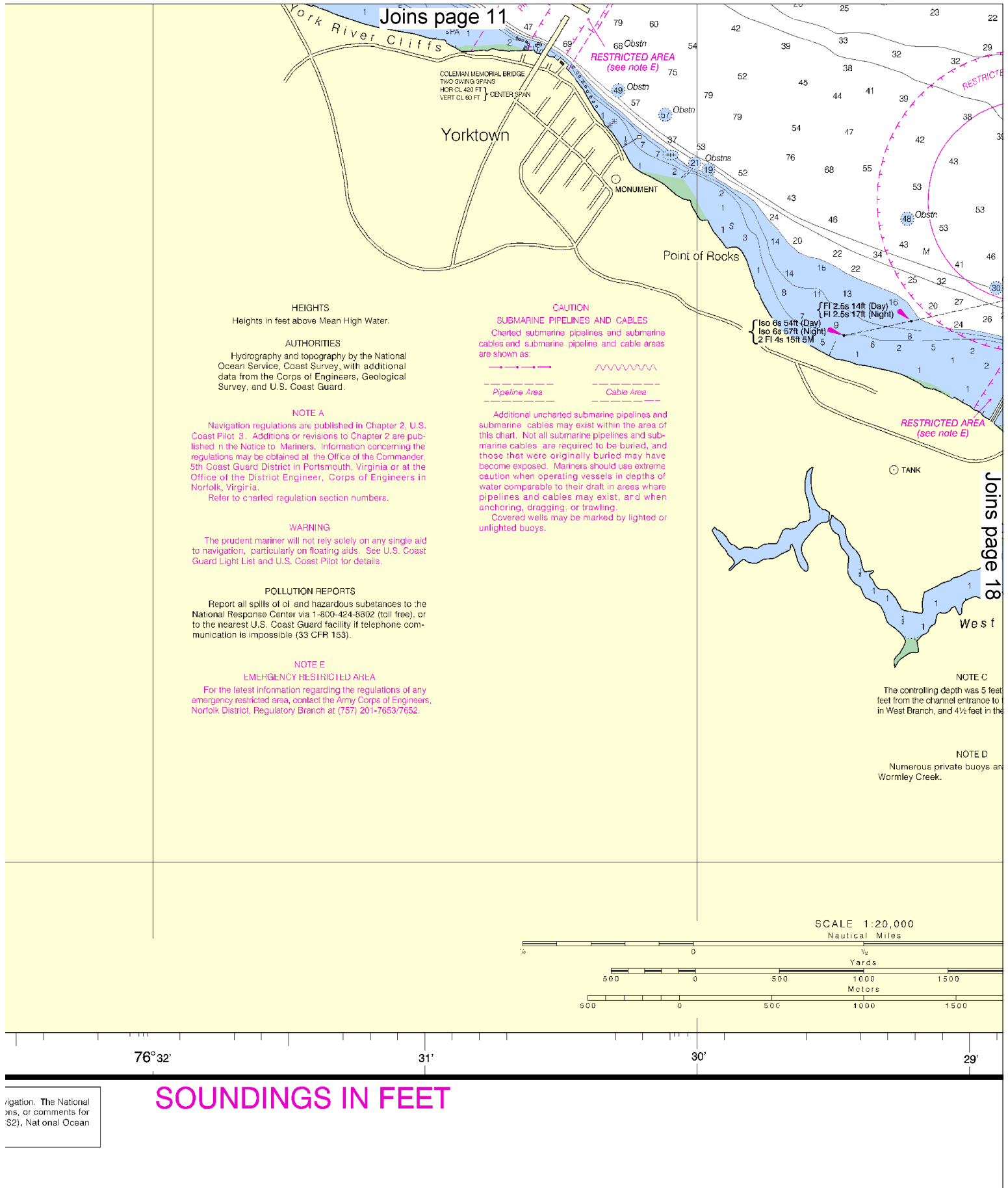
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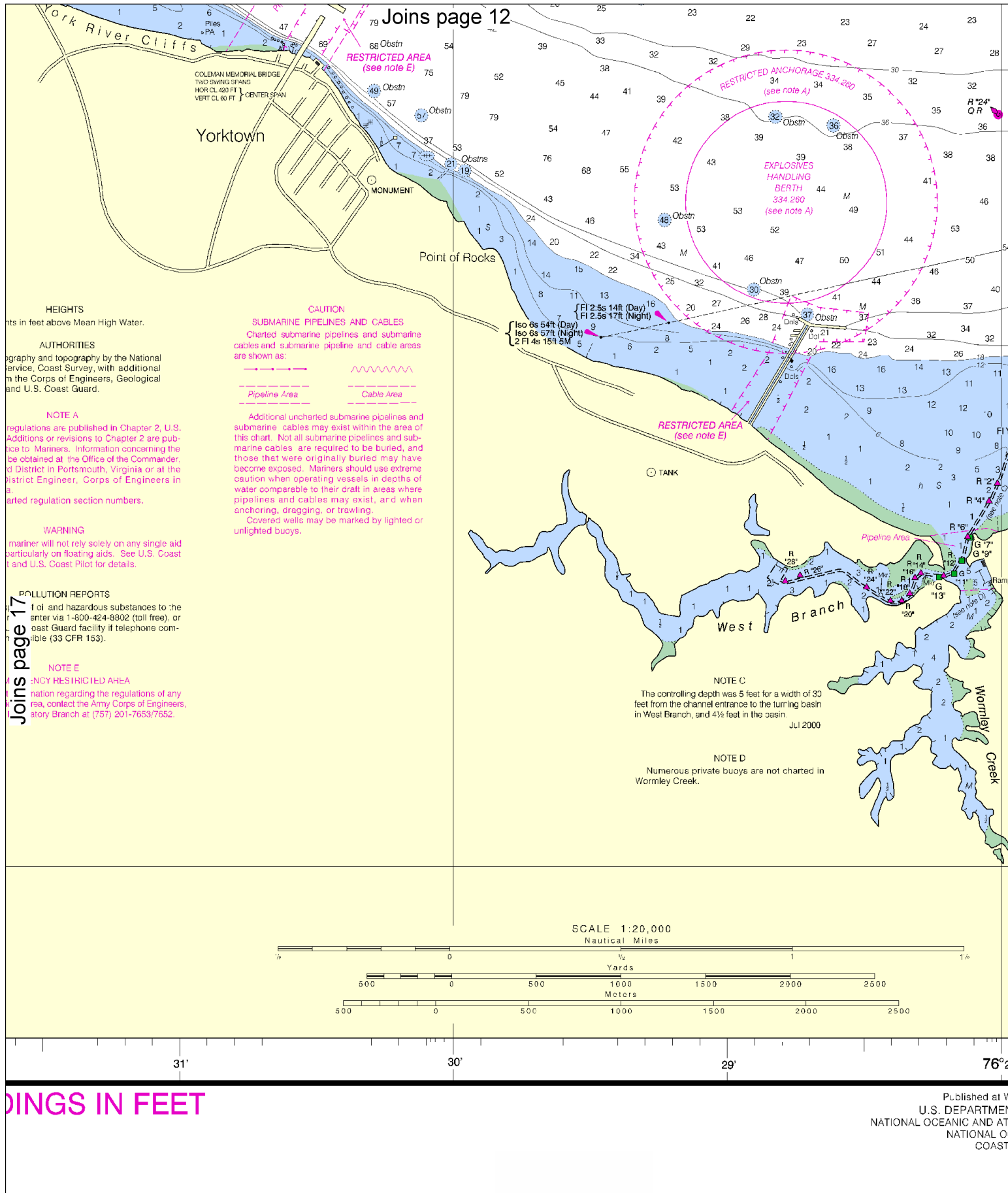
SCALE 1:20,000  
Nautical Miles

See Note on page 5.









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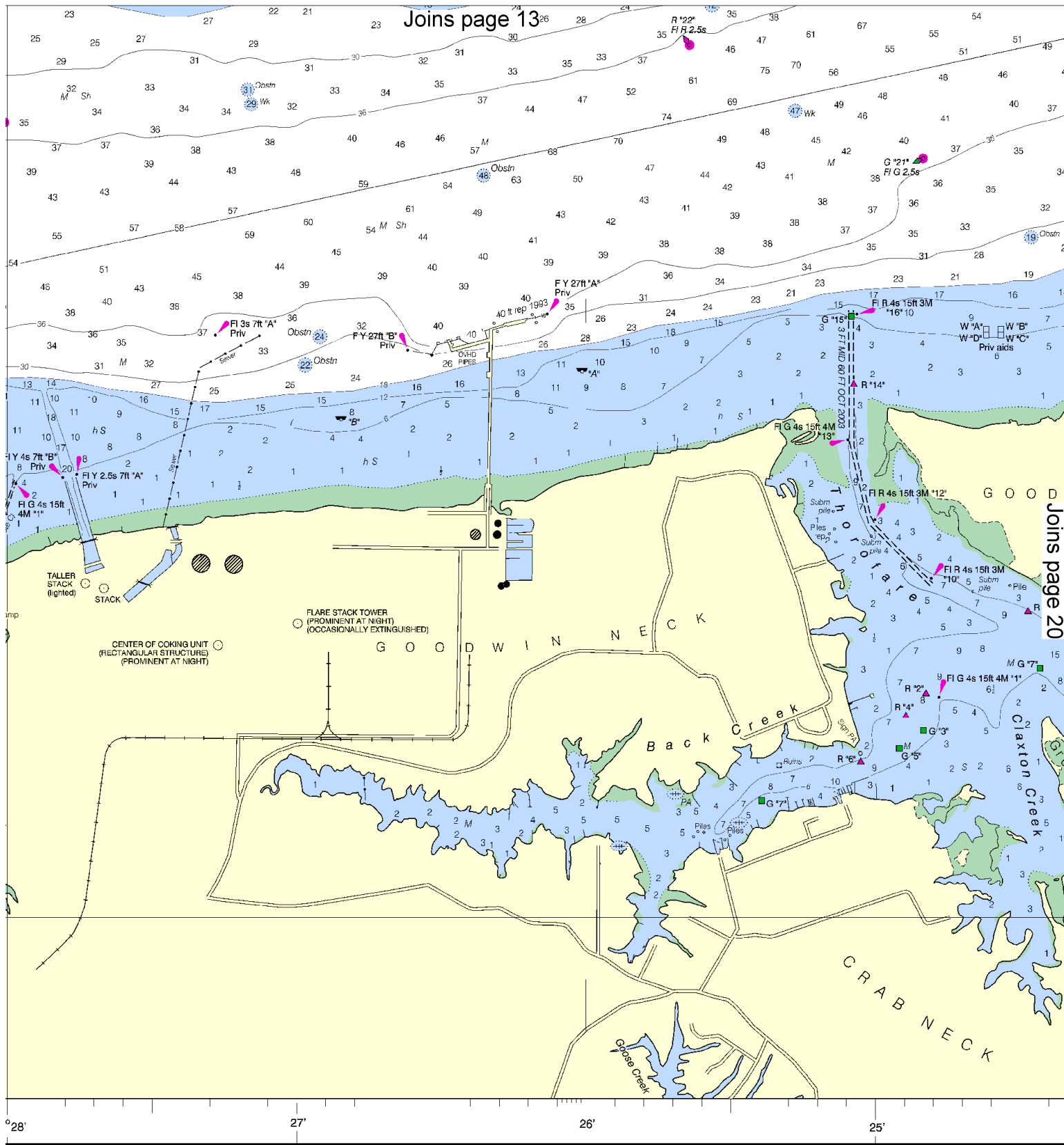


Printed at reduced scale.

SCALE 1:20,000  
Nautical Miles

See Note on page 5.





Washington, D.C.  
DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
OCEAN SERVICE  
NATIONAL SURVEY

PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your local dealer about Print-on-Demand charts or contact NOAA at 1-800-584-4883, <http://NauticalCharts.gov>, or OceanGrafix at 1-877-56CHART, <http://OceanGrafix.com>.

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FATHOMS	1
FEET	6
METERS	1.1



SCALE 1:20,000  
Nautical Miles

See Note on page 5.

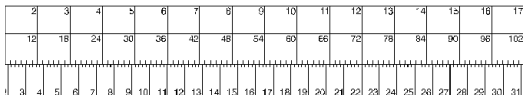






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NGA REFERENCE NO. 12AHA12241

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## EMERGENCY INFORMATION

### VHF Marine Radio channels for use on the waterways:

**Channel 6** – Intership safety communications.

**Channel 9** – Communications between boats and ship-to-coast.

**Channel 13** – Navigation purposes at bridges, locks, harbors.

**Channel 16 – Emergency, distress and safety calls** to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

**Channel 22** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

**Channels 68, 69, 71, 72 & 78** – Recreational boat channels.

### Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

**HAVE ALL PERSONS PUT ON LIFE JACKETS !!**

**Mobile Phones** – Call 911 for water rescue.

**Coast Guard Search & Rescue** – 800-418-7314/410-576-2525

**Coast Guard Milford Haven** – 804-725-2125/3732

**Coast Guard Cape Charles** – 757-331-2000

**St. Inigoes** – 301-872-4344/4345

**Virginia Marine Police** – 800-541-4646

**NOAA Weather Radio** – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

**Getting and Giving Help** – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

## NOAA CHARTING PUBLICATIONS

**Official NOAA Nautical Charts** – NOAA surveys and charts the national and territorial waters of the U.S., including the Great Lakes, producing over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official Electronic Navigational Charts® (ENCs)** – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at: [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official Raster Navigational Charts (RNCs)** – RNCs are georeferenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at: [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official BookletCharts™** – BookletCharts™ are reduced scale NOAA charts printed in page-sized pieces. The "home edition" can be downloaded from NOAA for free and printed. The "professional edition", containing additional boating, safety, and educational edition is available for NOAA chart agents or over the Internet.

**Official PocketCharts™** – PocketCharts™ are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

**Official U.S. Coast Pilot®** – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from official NOAA chart agents or downloaded for free at: [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Official Print-on-Demand Nautical Charts** – These full-scale NOAA charts are updated each week by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print on Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at [www.OceanGrafix.com](http://www.OceanGrafix.com).

**Official Chart No. 1, Nautical Chart Symbols** – This reference publication depicts basic chart elements and explains nautical chart symbols and abbreviations. Download it for free at: [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov).

**Coast Survey Navigation Managers** – These ambassadors to the maritime community maintain a regional presence for NOAA and help identify the challenges facing marine transportation and boating. They are listed at <http://nauticalcharts.noaa.gov/nsd/rep.htm>.

Internet sites: [www.NauticalCharts.NOAA.gov](http://www.NauticalCharts.NOAA.gov), [www.NOAA.gov](http://www.NOAA.gov), [www.TidesandCurrents.NOAA.gov](http://www.TidesandCurrents.NOAA.gov), [www.NOS.NOAA.gov](http://www.NOS.NOAA.gov).



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